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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,934	01/30/2004	Yoshihiro Ochiai	018842.1288	3958
	0/766,934 01/30/2004 Yoshihiro Ochiai  4735 7590 06/22/2007  BAKER BOTTS LLP  C/O INTELLECTUAL PROPERTY DEPARTMENT  THE WARNER, SUITE 1300	EXAMINER		
C/O INTELLECTUAL PROPERTY DEPARTMENT			HAMO, PATRICK	
1HE WARNER, SUITE 1300 1299 PENNSYLVANIA AVE, NW		ART UNIT	PAPER NUMBER	
WASHINGTO	I, DC 20004-2400		3746	
	•		NOTIFICATION DATE	DELIVERY MODE
			06/22/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/766,934	OCHIAI, YOSHIHIRO		
Office Action Summary	Examiner	Art Unit		
•	Patrick Hamo	3746		
The MAILING DATE of this communi Period for Reply	cation appears on the cover sheet w	th the correspondence address		
A SHORTENED STATUTORY PERIOD FOWHICHEVER IS LONGER, FROM THE Market SIX (6) MONTHS from the mailing date of this common if NO period for reply is specified above, the maximum states are to reply within the set or extended period for reply Any reply received by the Office later than three months are earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNION of 37 CFR 1.136(a). In no event, however, may a runication.  Itutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  IANDONED (35 U.S.C. § 133).		
Status	·			
<ul> <li>1) Responsive to communication(s) file</li> <li>2a) This action is FINAL.</li> <li>3) Since this application is in condition to closed in accordance with the practice</li> </ul>	tb)⊠ This action is non-final. for allowance except for formal matt	• •		
Disposition of Claims				
4) ⊠ Claim(s) <u>1-8</u> is/are pending in the ap 4a) Of the above claim(s) is/ar 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,7 and 8</u> is/are rejected. 7) ⊠ Claim(s) <u>5 and 6</u> is/are objected to. 8) □ Claim(s) are subject to restrice.	e withdrawn from consideration.			
Application Papers				
9)⊠ The specification is objected to by the 10)⊠ The drawing(s) filed on 30 January 20 Applicant may not request that any object Replacement drawing sheet(s) including 11)□ The oath or declaration is objected to	$0.004$ is/are: a) $\boxtimes$ accepted or b) $\square$ oction to the drawing(s) be held in abeyare the correction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) △ Acknowledgment is made of a claim of a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority of the priority of the certified copies of the certified	documents have been received. documents have been received in A of the priority documents have been hal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage		
Attachment(s)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (P' 3)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 30 Jan 04, 31 May 06.</li> </ol>	TO-948) Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application 		

#### **DETAILED ACTION**

#### Information Disclosure Statement

The information disclosure statement filed May 31, 2006 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

## Specification

The disclosure is objected to because of the following informalities: On page 9, the reference numeral 11d is used to refer first to a "rod" and then to a "discharge gas inflow chamber", on lines 16 and 21, respectively. Also on page 9, the reference numeral 11 is used to refer first to a "throttling valve" and then to the "rod", on lines 13 and 22, respectively. In both instances, it seems that the first reference is consistent with the rest of the application and the second reference is a typographical error.

Appropriate correction is required.

## Claim Objections

Claims 5 and 6 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim (claim 5) cannot depend from any other multiple

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dependent claim (claim 3). See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 13 of claim 1, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d). Claims 2-8, which depend from claim 1, are therefore also indefinite. For purposes of examination, the claimed limitation is interpreted as external information detecting means for detecting external information of any kind.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-3 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Ota et al., US Pat. No. 6,361,283.

Ota discloses a control valve system 50 of a variable displacement swash plate compressor for use in a heating and cooling air conditioner, comprising: a throttling valve (rod portion 82) provided in a refrigerating circuit; a constant differential pressure valve (between rod portions 83 and 84) arranged to open when a differential pressure between upstream (Pc) and downstream (Pd) pressures of the throttling valve reaches a predetermined value, thereby introducing compressor discharge gas to a crank chamber; external information detecting means (35, 36, 37) for detecting external information (temperature, on/off); and control means (C) for determining an opening of the throttling valve based on the external information, wherein the throttling valve is an electromagnetic valve (solenoid, with, for example, coil 71) and integrally mounted to the constant differential pressure valve, wherein the constant differential pressure valve is arranged to introduce the compressor discharge gas 22 on the upstream side of the throttling valve into the crank chamber 5 (see fig. 2), wherein the throttling valve has a pressure receiving portion (top portion of rod 82) that presses the throttling valve in a direction to be opened when it receives a downstream side pressure, and wherein the pressure receiving portion has the same area as that of a downstream-side pressure receiving surface (bottom portion of rod portion 82) of the throttling valve.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ota in view of Hayashi et al., US Pub. No. 2003/0031569.

Ota discloses all of the limitations substantially as claimed except for the following: a cutoff valve disposed on the downstream side of the throttling valve.

However, Hayashi teaches a variable displacement compressor with a cutoff or check valve 38 downstream of the discharge chamber 132 and control valve 41 that is urged to stop when the inclination angle of the swash plate 23 is at a minimum (in which case the air compressor is not operating), which stops the circulation of the refrigerant gas (p. 3, paragraph 38).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to have modified the variable displacement compressor of Ota with the check valve of Hayashi to stop a refrigerant circulation when the compressor is not operating.

#### Conclusion

Applicant is duly reminded that a complete response must satisfy the requirements of 37 C.F. R. 1.111, including: "The reply must present arguments pointing out the specific distinctions believed to render the claims, including any newly presented claims, patentable over any applied references. A general allegation that the claims 'define a patentable invention' without specifically pointing out how the language of the claims patentably distinguishes them from the references does not comply with the requirements of this section. Moreover, 'The prompt development of a clear Issue requires that the replies of the applicant meet the objections to and rejections of the claims." Applicant should also specifically point out the support for any amendments made to the disclosure. See MPEP 2163.06 II(A), MPEP 2163.06 and MPEP 714.02. The "disclosure" includes the claims, the specification and the drawings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Hamo whose telephone number is 571-272-3492. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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